

SEQUENCE LISTING

<110> Robinson, et al.

<120> IDENTIFICATION OF A GENE AND MUTATION RESPONSIBLE FOR AUTOSOMAL RECESSIVE CONGENITAL HYDROCEPHALUS

<130> 28335/39524A

<150> US 60/485,440

<151> 2003-07-08

<150> US 60/406,285

<151> 2002-08-27

<160> 16

<170> PatentIn version 3.1

<210> 1

<211> 15769

<212> DNA

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<400> 1

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Glu Lys Ile Pro Asn Val Leu Phe Leu Cys Asp Pro Glu Ala Arg Leu
 35 40 45

Gln Gln Leu Thr Ala Ser Val Pro Leu Cys Glu Gln Arg Lys Tyr Phe
 50 55 60

Lys	Gln	Thr	Asn	Lys	Arg	Leu	Glu	Glu	Ser	Met	Gly	Ala	Met	His	Arg	
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Gly Lys Leu Ile Val Thr Tyr Asp Thr Gly Glu Met Val Phe Val Cys
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Leu Tyr Gly Val Ala Ile Asp Val Asn Ile Arg Leu Asp Lys Asn Ser
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Thr Ile His Asn Arg Thr Asn Ile Ile Ala His Phe Gln Trp Lys Val
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Phe Ala Thr Glu Glu Glu Glu Asp Lys Glu Lys Tyr Lys Ile Cys Asp
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Gly Leu Asn Lys Glu Glu Lys Gln Glu Thr Ser Met Ile Leu Glu Asp
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Thr Phe Glu Asn Gln Arg Lys Leu Val Gln Gly Asp Ser Met Leu Phe
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Leu Asp His Val Phe Thr Ile Glu Pro Pro Glu Gly Asp Val Trp Pro
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Asn Val Ile Pro Pro Thr Ser Ala Leu Gly Ala Cys Phe Val Phe Asn
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Pro Lys Glu Gly Ile Ile Glu Pro Ser Gly Val Gln Ala Val Gln Ile
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Asp Val Asn Gly Ser Pro Glu Pro Val Lys Met Thr Ile Arg Gly Cys
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Val Ile Gly Pro Thr Phe His Phe Asn Val Pro Ala Leu Asn Phe Gly
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Glu Gly Met Ser Ser Ile Pro Ser Tyr Ser Gln Glu Ser Asp Ser Lys
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Gln Trp Ser Gly Ile Asn Thr Glu Met Pro Thr Thr Lys Pro Lys Glu
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Phe Thr Ile Ser Pro Asn Ser Gly Thr Ile Arg Ala Gln Gly Phe Thr
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Ala Ile Lys Val Thr Leu Cys Ser Asn Thr Val Gln Lys Tyr Glu Leu
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Ala Leu Val Val Asp Val Glu Gly Ile Gly Glu Glu Val Leu Ala Leu
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Leu Ile Thr Ala Arg Cys Val Val Pro Lys Leu Gln Leu Val Thr Thr
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Glu Val Asp Phe Gly Arg Cys Phe Leu Lys Tyr Pro Tyr Glu Lys Thr
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Ile Gln Leu Val Asn His Asp Asp Leu Pro Gly Cys Tyr Lys Val Leu
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Pro Cys Gly Val Ile Ser Pro His Ser Thr Val Ser Ile Pro Leu Ala
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Leu Glu Thr Gln Val Ile Gly Ala His Arg Ser Ile Val Tyr Ile Ser
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Gly Glu Gly Pro Val Ile Phe Ile His Pro Thr Gln Ile Asp Phe Gly
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Asn Ile Tyr Val Leu Lys Asp Thr Ser Arg Ile Leu Gln Leu Ser Asn
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Gln Ser Phe Ile Pro Ala Val Phe Arg Val Arg Met Ala Asn Lys Lys
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Pro Ile Gln Ala Thr Gly Ile Gly Ser Thr Ile Val Ser Asp Lys Pro
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Asp Val Ile Leu Glu Gly Tyr Ser Ala Thr Pro Lys Lys Val Lys
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Gly	Tyr	Asp	Ser	Tyr	Asn	Thr	Leu	Leu	Leu	Pro	Pro	Arg	Asn	Pro
1940						1945					1950			
Gly	Glu	Lys	Leu	Pro	Pro	Glu	Val	Tyr	Asp	Tyr	Phe	Lys	Glu	Met
1955						1960					1965			
Lys	Lys	Ser	Lys	Glu	Glu	His	Met	Lys	Ala	Lys	Tyr	Met	Glu	Asn
1970						1975					1980			
Leu	Glu	Asn	Glu	Glu	Glu	Glu	Met	Asn	Thr	Ser	Asp	Gln	Gly	Thr
1985						1990					1995			
Thr	Ser	Thr	Lys	Arg	Thr	Ser	Ile	Ser	Arg	Gly	Ile	Ser	Val	Thr
2000						2005					2010			
Ser	Asn	Leu	Glu	Glu	Arg	His	Leu	Thr	Ile	Glu	Ala	Lys	Asn	Tyr
2015						2020					2025			
Leu	Asp	Glu	Asp	Asp	Tyr	Glu	Glu	Ser	Leu	Glu	Lys	Leu	Thr	Phe
2030						2035					2040			

Gln	Thr	Asp	Lys	Met	Gln	Ser	Thr	Asp	Ser	His	Ser	Val	Glu	Glu
2045						2050					2055			
Val	Gly	Glu	Val	Glu	Ser	Asn	Pro	Val	Ser	Lys	Ala	Ile	Ala	Arg
2060						2065					2070			
His	Leu	Gly	Ile	Asp	Ile	Ser	Ala	Glu	Gly	Arg	Leu	Ala	Lys	Asn
2075						2080					2085			
Arg	Lys	Gly	Ile	Ala	Ile	Ile	Val	His	Gly	Thr	Pro	Leu	Ser	Gly
2090						2095					2100			
Lys	Thr	Ala	Asn	Ala	Ile	Ser	Met	Ala	Lys	Phe	Tyr	Asn	Ala	Ala
2105						2110					2115			
Cys	Leu	Asn	Ile	Asp	Ser	Ile	Val	Leu	Glu	Ala	Leu	Ser	Asp	Thr
2120						2125					2130			
Asn	Asn	Ile	Leu	Gly	Ile	Arg	Ala	Arg	Glu	Leu	Cys	Ile	Arg	Ala
2135						2140					2145			
Ala	Ile	Glu	Gln	Ser	Met	Arg	Glu	Ala	Glu	Glu	Ser	Ala	His	Glu
2150						2155					2160			
Ser	Ser	Met	Thr	Gln	Asn	Thr	Val	Val	Pro	Ala	Arg	Leu	Ser	Thr
2165						2170					2175			
Glu	Asn	Leu	Gly	Arg	Phe	Thr	Ser	Glu	Leu	Thr	Leu	Ile	Thr	Gln
2180						2185					2190			
Glu	Tyr	Lys	Val	Pro	Lys	Thr	Val	Arg	Gly	Ser	Val	Met	Leu	Pro
2195						2200					2205			
Lys	Gly	Lys	Ala	Asp	Ser	His	Phe	Thr	Gly	Ser	Gln	Lys	Gln	His
2210						2215					2220			
His	Gln	His	Gln	Ser	Glu	Thr	Pro	Gln	Val	Gln	Ile	Ser	Ser	Ser
2225						2230					2235			
Pro	Leu	Leu	Pro	Gly	Pro	Thr	His	Arg	Arg	Leu	Ser	Val	Ser	Ala
2240						2245					2250			
Ser	Ile	Gly	Gly	Glu	Thr	Gly	Leu	Met	Ser	Cys	Val	Leu	Pro	Asp
2255						2260					2265			
Asp	Leu	Leu	Ile	Gln	Ile	Leu	Ala	Glu	Arg	Ile	Gln	Leu	Ser	Asn
2270						2275					2280			

Cys	Phe	Arg	Gly	Val	Val	Phe	Asp	Gly	Leu	Asp	Thr	Leu	Phe	Ala
2285						2290					2295			
Arg	Asn	Ala	Pro	Ser	Ala	Leu	His	Cys	Leu	Leu	Lys	Ala	Ile	Gly
2300						2305					2310			
Ser	Arg	Glu	His	Ile	Tyr	Val	Ile	Asn	Met	Ser	Gln	Asp	Tyr	Val
2315						2320					2325			
Val	Met	Lys	Ala	Gln	Glu	Lys	Ala	Lys	Lys	Glu	Gln	Glu	Glu	Asn
2330						2335					2340			
Lys	Arg	Lys	Glu	Ala	Leu	Ala	Lys	Glu	Lys	Glu	Arg	Leu	Gln	Thr
2345						2350					2355			
Leu	Asp	Glu	Asp	Glu	Tyr	Asp	Ala	Leu	Thr	Ala	Glu	Glu	Lys	Val
2360						2365					2370			
Ala	Phe	Asp	Arg	Asp	Val	Arg	Gln	Ala	Leu	Arg	Glu	Arg	Lys	Lys
2375						2380					2385			
Arg	Glu	Leu	Glu	Arg	Leu	Ala	Lys	Glu	Met	Gln	Glu	Lys	Lys	Leu
2390						2395					2400			
Gln	Gln	Glu	Leu	Glu	Arg	Gln	Lys	Glu	Glu	Asp	Glu	Leu	Lys	Arg
2405						2410					2415			
Lys	Val	Lys	Arg	Pro	Lys	Ala	Gly	Pro	Ala	Ala	Lys	Glu	Glu	Pro
2420						2425					2430			
Pro	Leu	Lys	Lys	Ala	Gln	Gly	Ala	Thr	Asn	Lys	Gln	Leu	Ala	Ala
2435						2440					2445			
Val	Ala	Lys	Ile	Glu	Leu	Lys	Met	Glu	Ser	Ile	Glu	Arg	Lys	Val
2450						2455					2460			
Ser	Val	Arg	Glu	His	Ala	Thr	Leu	Glu	Glu	Thr	Thr	Arg	Lys	Lys
2465						2470					2475			
Lys	Ala	Met	Thr	Glu	Tyr	Pro	Leu	Leu	Ile	Pro	Ile	Ser	Gln	Glu
2480						2485					2490			
Gln	Glu	Asp	Ser	Glu	Gly	Asp	Phe	Leu	Lys	Asp	Ser	Asp	Lys	Asn
2495						2500					2505			
Leu	Ala	Gln	Lys	Phe	Lys	Ile	Tyr	Asp	Met	Cys	Leu	Lys	Asp	Val
2510						2515					2520			

Gln	Asn	Ile	Leu	Met	Tyr	Trp	Asp	Arg	Lys	Gln	Gly	Met	Met	Val
2525						2530					2535			
Pro	His	Thr	Gly	Thr	Asp	Glu	Met	Ser	His	Glu	Ala	Asp	Asp	Gln
2540						2545					2550			
Arg	Gln	Ala	Pro	Ser	Gly	Gly	Gly	Gly	Arg	Lys	Gly	Arg	Lys	Asp
2555						2560					2565			
Arg	Glu	Arg	Glu	Arg	Leu	Glu	Lys	Glu	Arg	Ala	Glu	Lys	Glu	Arg
2570						2575					2580			
Leu	Glu	Arg	Glu	Lys	Ala	Glu	Arg	Glu	Arg	Leu	Glu	Lys	Leu	Lys
2585						2590					2595			
Ala	Leu	Glu	Glu	Arg	Ser	Asp	Val	Glu	Gly	Glu	Gly	Glu	Glu	Glu
2600						2605					2610			
His	Glu	Gly	Lys	Lys	Asp	Leu	Gly	Val	Pro	Phe	Ile	Asn	Ile	Gln
2615						2620					2625			
Ser	Pro	Asp	Phe	Glu	Gly	Val	Ser	Trp	Lys	Gln	Ala	Leu	Glu	Ser
2630						2635					2640			
Asp	Lys	Leu	Pro	Lys	Gly	Asp	Gln	Ile	Leu	Asp	Ile	Leu	Gly	Leu
2645						2650					2655			
Gly	Ser	Ser	Gly	Pro	Pro	Ile	Pro	Pro	Pro	Val	Leu	Phe	Ser	Ile
2660						2665					2670			
Ile	Ser	Tyr	Pro	Ala	Lys	Arg	Gln	Ser	Leu	Val	Ala	Thr	Glu	Ile
2675						2680					2685			
Leu	Lys	His	Phe	Val	Phe	Val	Ile	Pro	Pro	Asn	Asp	Asp	Ile	Pro
2690						2695					2700			
Leu	Met	Asp	Glu	Lys	Lys	Asp	Pro	Glu	Gly	Asp	Ser	Asp	Ile	Phe
2705						2710					2715			
Leu	Asn	Thr	Ile	Ile	Thr	Lys	Ala	Gln	Glu	Glu	Gln	Pro	Ser	Pro
2720						2725					2730			
Pro	Lys	Gly	Ser	Lys	Gln	Lys	Leu	Lys	Asp	Lys	Pro	Glu	Gln	Val
2735						2740					2745			
Arg	Glu	Thr	Gln	Lys	Glu	Lys	Arg	Arg	Thr	Tyr	Ser	Ser	Arg	Lys
2750						2755					2760			

Gly	Leu	Pro	Gly	Gly	Thr	Ser	Gly	Ser	Ile	Val	Pro	Met	Ser	Asp
2765						2770					2775			
Ile	Asp	Gln	Asn	Ser	Phe	Asp	Gly	Glu	His	Ser	Gln	Glu	Lys	Phe
2780						2785					2790			
Ile	Arg	Leu	Asn	His	Phe	Arg	Trp	Ile	Val	Pro	Pro	Asn	Gly	Glu
2795						2800					2805			
Val	Thr	Leu	Arg	Val	His	Phe	Ser	Ser	Leu	Asp	Val	Gly	Asn	Tyr
2810						2815					2820			
Asp	Gln	Thr	Phe	Asn	Phe	Glu	Leu	Leu	Gly	Thr	Arg	Arg	Gln	Tyr
2825						2830					2835			
Gln	Leu	Tyr	Cys	Arg	Gly	Val	Cys	Thr	Tyr	Pro	Tyr	Ile	Cys	Arg
2840						2845					2850			
Asp	Pro	Lys	Val	Val	Phe	Ser	Gln	Arg	Lys	Lys	Asp	Met	Lys	Leu
2855						2860					2865			
Lys	Glu	Val	Val	Val	Lys	Lys	Tyr	Val	Val	Ser	Met	Glu	Lys	Phe
2870						2875					2880			
Tyr	Phe	Gly	Pro	Leu	Leu	Cys	Gly	Lys	Ser	Arg	Asp	Lys	Tyr	Lys
2885						2890					2895			
Ser	Ser	Leu	Phe	Pro	Gly	Asn	Met	Glu	Thr	Leu	Thr	Ile	Leu	Asn
2900						2905					2910			
Asp	Ser	Pro	Met	Val	Val	Glu	Ala	Tyr	Phe	Cys	Phe	Gln	His	Asp
2915						2920					2925			
Ile	Lys	Ala	Ser	Thr	Tyr	Phe	Leu	Glu	Pro	Val	Asn	Met	Thr	Leu
2930						2935					2940			
Lys	Pro	Asn	Glu	Lys	Gln	Ala	Leu	Asn	Val	Trp	Ala	Tyr	Pro	Thr
2945						2950					2955			
Ala	Val	Gly	Ile	Phe	Glu	Asp	Ser	Ile	Val	Cys	Cys	Ile	Lys	Glu
2960						2965					2970			
Asn	Pro	Glu	Pro	Ala	Ile	Phe	Lys	Leu	Ser	Cys	Gln	Gly	Ile	Arg
2975						2980					2985			
Pro	Glu	Ile	Glu	Val	Glu	Pro	Arg	Gln	Leu	His	Phe	Asp	Arg	Leu
2990						2995					3000			

Leu 3005	Leu	His	Arg	Lys	Glu	Thr 3010	Lys	Ile	Val	Ile	Leu 3015	Arg	Asn	Val
Thr 3020	Pro	Leu	Pro	Val	Ala	Trp 3025	Arg	Ile	Ser	Asn	Leu 3030	Glu	His	Leu
Gly 3035	Glu	Asp	Phe	Thr	Val	Ser 3040	Met	Met	Gln	Gly	Thr 3045	Met	Leu	Pro
Lys 3050	Gly	Glu	Tyr	Gly	Leu	Gln 3055	Val	His	Phe	Gln	Pro 3060	Ser	Lys	Pro
Val 3065	Asn	Ile	Lys	Lys	Ala	Ile 3070	Arg	Ile	Glu	Val	Leu 3075	Asp	Ala	Glu
Asn 3080	Leu	Val	Gly	Val	Val	Gln 3085	Ile	Glu	Asn	Ile	Leu 3090	Ile	Phe	Ala
Glu 3095	Ser	Tyr	Asp	Ile	Ala	Leu 3100	Asp	Ile	Thr	Phe	Pro 3105	Lys	Gly	Ala
Glu 3110	Gly	Gly	Leu	Asp	Phe	Gly 3115	Thr	Leu	Arg	Val	Met 3120	Glu	Glu	Val
Lys 3125	Gln	Thr	Leu	Gln	Leu	Lys 3130	Asn	Arg	Gly	Lys	Tyr 3135	Glu	Ile	Ile
Phe 3140	Ser	Phe	Thr	Val	Asp	Thr 3145	Leu	Gly	Val	Leu	Pro 3150	Thr	Asn	Leu
Ser 3155	Ser	Met	Ile	Ser	Val	Gln 3160	Pro	Lys	Arg	Gly	Thr 3165	Leu	Ala	Ser
Ile 3170	Asp	Lys	Pro	Thr	Thr	Val 3175	Gln	Val	Phe	Phe	Arg 3180	Ala	Arg	Lys
Glu 3185	Val	Lys	Ile	Asp	Cys	Gln 3190	Pro	Ile	Leu	Arg	Cys 3195	Gln	Ile	Ile
Glu 3200	Pro	Thr	Leu	Pro	Glu	Gly 3205	Glu	Ile	Ile	Ala	Ser 3210	Ile	Pro	Ile
Lys 3215	Phe	Ser	Val	Asn	Ala	Val 3220	Tyr	Ser	Lys	Phe	Thr 3225	Ile	Ser	Pro
Ser 3230	Ser	Ile	Ile	Asn	Phe	Gly 3235	Ala	Leu	Ile	Cys	Gly 3240	Thr	Arg	Lys

Ser	Ile	Thr	Phe	Thr	Ile	Glu	Asn	Gln	Gly	Ile	Ile	Asp	Phe	Lys
3245						3250					3255			
Tyr	Ala	Leu	Tyr	Arg	Leu	Thr	Gly	Glu	Ser	Pro	Ile	Leu	Gln	Lys
3260						3265					3270			
Lys	Ile	Thr	Ser	His	Met	Arg	His	Gly	Arg	Thr	Arg	Glu	Ser	Glu
3275						3280					3285			
Ser	Phe	Tyr	Lys	Pro	Gly	Ala	Thr	Lys	Met	Ala	Lys	Phe	Ser	Asp
3290						3295					3300			
Thr	Val	Gln	Lys	Asp	Thr	Asn	Ile	Ala	Asn	Gln	Ala	Arg	Phe	Thr
3305						3310					3315			
His	Gly	Met	Phe	Thr	Val	Tyr	Pro	Gly	Phe	Gly	Ser	Ile	Pro	Ser
3320						3325					3330			
Gly	Gly	Gln	Gln	Val	Ile	Thr	Ile	Glu	Cys	Phe	Ala	Asp	Pro	Val
3335						3340					3345			
Gly	Arg	Cys	Glu	Glu	Phe	Leu	Ala	Ile	Asp	Ile	Ser	Asp	Arg	Asp
3350						3355					3360			
Pro	Arg	Glu	Asn	Pro	Ala	Gly	Ile	Pro	Tyr	Thr	Leu	Leu	Ala	Glu
3365						3370					3375			
Ala	Cys	Leu	Pro	Ala	Phe	Val	Thr	Asp	Asn	Asn	Ile	Leu	Ile	Phe
3380						3385					3390			
Glu	Glu	His	Gln	Ile	Cys	Thr	Ser	Pro	Asn	Leu	Tyr	His	Ile	Leu
3395						3400					3405			
Gln	Thr	Ile	Gln	Ser	Gly	Gly	Leu	Phe	Val	Glu	Asp	Glu	Asn	Lys
3410						3415					3420			
Phe	Ile	Phe	Cys	Asn	Val	Leu	Val	Gly	His	Gln	Ala	Lys	Ala	Arg
3425						3430					3435			
Phe	Lys	Ile	Ser	Asn	Val	Gly	Lys	Ile	Ser	Cys	Asp	Ile	Asn	Ile
3440						3445					3450			
Val	Ile	Lys	Pro	Ile	Ser	Asn	Lys	Pro	Ala	Asn	Arg	Ile	Thr	Asp
3455						3460					3465			
Thr	Phe	Asp	Val	Glu	Pro	Ser	Lys	Met	Cys	Ile	Gly	Ser	Arg	Ser
3470						3475					3480			

His	Ala	Phe	Val	Thr	Val	Leu	Phe	Thr	Pro	Gln	Thr	Met	Gln	Thr
3485						3490					3495			
Tyr	Gln	Cys	Ile	Phe	Glu	Ala	Thr	Leu	Asp	Gly	Leu	Pro	Ser	Asn
3500						3505					3510			
Ile	Ala	Arg	Ser	Arg	Gly	Leu	Val	Phe	Asp	Ile	Val	Gly	Glu	Gly
3515						3520					3525			
Thr	Leu	Pro	Arg	Val	Thr	Val	Ile	Arg	Pro	Thr	Leu	Tyr	Asn	Gln
3530						3535					3540			
His	Gly	Asn	Pro	Leu	Leu	Leu	Phe	Lys	Arg	Leu	Leu	Leu	Gly	His
3545						3550					3555			
Ser	Glu	Lys	Leu	Pro	Leu	Ile	Leu	Lys	Asn	Asn	Gly	Thr	Ile	Pro
3560						3565					3570			
Ala	Gln	Leu	His	Val	Asp	Leu	Arg	Asp	Gln	Leu	Gly	Val	Phe	Ser
3575						3580					3585			
Leu	Lys	Gly	Arg	Pro	Thr	Thr	Ser	Tyr	Ile	Tyr	Ile	Met	Glu	Glu
3590						3595					3600			
Asn	Lys	Pro	Asn	Glu	Lys	Val	Lys	Lys	Ala	His	Thr	Ala	Ser	Leu
3605						3610					3615			
Val	Val	Ser	Pro	Gly	Asp	Thr	Ala	Glu	Phe	Asp	Val	Phe	Phe	His
3620						3625					3630			
Ser	Asn	Lys	Ile	Gly	Arg	Met	Thr	Gly	Thr	Ile	His	Leu	Ser	Val
3635						3640					3645			
Ile	Asn	Asn	Gln	Tyr	Glu	Glu	Thr	Met	Ile	His	Leu	Val	Gly	Glu
3650						3655					3660			
Ser	Tyr	Glu	Asp	Asp	Ile	Thr	Leu	Asp	Asn	Ile	His	Gly	Leu	Ile
3665						3670					3675			
Ser	Ser	Thr	Ser	Gln	Glu	Ser	Ser	Asp	Lys	Ser	Glu	Val	Ile	Glu
3680						3685					3690			
Ile	Ala	Glu	Glu	Ser	Thr	Met	Glu	Asp	Leu	Val	Thr	Ala	Ala	Leu
3695						3700					3705			
Met	Glu	His	Ile	Gln	Phe	Gly	Tyr	Cys	His	Ile	Gly	Ile	Ser	Tyr
3710						3715					3720			

Asn	Val	Ser	Phe	Thr	Ile	Thr	Asn	His	Ser	Gln	Val	Asn	Val	Ile
3725						3730					3735			
Arg	Phe	Glu	Trp	Pro	Leu	Leu	Ala	Thr	Leu	Ser	Phe	Ser	Pro	Gln
3740						3745					3750			
Ile	Gly	His	Leu	His	Pro	Gly	Cys	Ser	Lys	Asp	Val	Val	Val	Thr
3755						3760					3765			
Leu	Lys	Ser	Glu	Ser	Pro	Ile	Thr	Leu	Lys	Lys	Met	Cys	Val	Lys
3770						3775					3780			
Cys	Lys	Leu	Ser	Lys	Ile	Met	Phe	Gln	Leu	Pro	Val	Asp	Gln	Val
3785						3790					3795			
Pro	Asp	Trp	Asp	Asp	Arg	Met	Arg	Thr	Val	Lys	Trp	Val	Asp	Ala
3800						3805					3810			
Pro	Arg	Asn	Thr	Pro	Leu	Thr	Leu	Asn	Thr	Lys	Arg	Lys	Val	Ile
3815						3820					3825			
Glu	Met	Asp	Pro	Glu	Pro	Ala	His	Ser	Val	Val	Glu	Glu	Asn	Tyr
3830						3835					3840			
Arg	Glu	Leu	Arg	Ile	Gln	Phe	Ser	Ala	Asn	Val	Asp	Phe	Ala	Ser
3845						3850					3855			
Tyr	Gln	Cys	Glu	Thr	Thr	Glu	Val	Phe	Phe	Lys	Glu	Thr	Leu	Val
3860						3865					3870			
Tyr	Gln	Thr	Arg	Val	Phe	Glu	Phe	Asp	Leu	Val	Asn	Thr	Gly	Gln
3875						3880					3885			
Val	Leu	Leu	Glu	Phe	Cys	Trp	Ile	Ser	Glu	Glu	Ala	Ser	Lys	Ala
3890						3895					3900			
Val	Ser	Phe	Ala	Met	Pro	Glu	Arg	Gln	Gly	Ser	Ser	Gln	Lys	Glu
3905						3910					3915			
Leu	Ser	Gln	Gly	Ser	Gly	Ser	Ser	Leu	Asp	Ser	Ala	Leu	Asp	Arg
3920						3925					3930			
Trp	Thr	Glu	Ala	Ser	Pro	Ser	Pro	Phe	Ser	Val	Glu	Pro	Pro	Ser
3935						3940					3945			
Gly	Val	Val	Pro	Val	Gly	Lys	Thr	Gln	Lys	Leu	Lys	Val	Lys	Phe
3950						3955					3960			

Ser	Pro	Met	Asp	Ile	Gly	Glu	Phe	Glu	Ser	Ser	Leu	Tyr	Cys	Gln
3965						3970					3975			
Ile	Pro	Asn	Leu	Pro	Leu	Gly	Glu	Gln	Gly	Pro	Ile	Leu	Ile	Thr
3980						3985					3990			
Lys	Gly	Arg	Ser	Val	Leu	Pro	Phe	Cys	His	Phe	Asp	Leu	Lys	Glu
3995						4000					4005			
Ser	Asp	Tyr	Ile	Ser	Gly	His	Arg	Arg	Asn	Pro	Glu	Leu	Arg	Gly
4010						4015					4020			
Pro	Gly	Ala	Gly	Pro	Leu	Glu	Pro	Asn	Thr	Arg	Val	Ile	Glu	Phe
4025						4030					4035			
Thr	Ser	Val	Gly	Ile	Gly	Gly	Lys	Asn	Val	Gln	Thr	Phe	Thr	Ile
4040						4045					4050			
Leu	Asn	Pro	Thr	Asn	Ser	Thr	Tyr	Ser	Phe	Cys	Trp	Thr	Ser	Glu
4055						4060					4065			
Glu	Thr	Glu	Ser	Leu	Gln	His	Pro	Pro	Ala	Phe	Val	Cys	Leu	Thr
4070						4075					4080			
Glu	Lys	Gly	Ile	Ile	His	Pro	Glu	Lys	Lys	Ala	Glu	Ile	Ile	Phe
4085						4090					4095			
Gln	Phe	Leu	Pro	Ala	His	Leu	Asp	Ile	Thr	Glu	Glu	Phe	Trp	Thr
4100						4105					4110			
Phe	Ser	Ile	Pro	Glu	His	Asn	Ile	Ser	Val	Pro	Phe	Leu	Leu	Val
4115						4120					4125			
Gly	Lys	Thr	Thr	Asp	Pro	Leu	Ile	Ser	Leu	Asp	Lys	Ser	His	Leu
4130						4135					4140			
Asn	Phe	Ser	Ser	Leu	Leu	Ile	Gly	Arg	Glu	Ala	Arg	Glu	Thr	Val
4145						4150					4155			
Lys	Ile	Ile	Asn	Lys	Glu	Glu	Gln	Gly	Phe	Asn	Phe	Ala	Phe	Gln
4160						4165					4170			
Asp	Asn	Ser	Arg	Tyr	Ser	Glu	Gly	Phe	Asn	Asn	Ser	Leu	Ile	Val
4175						4180					4185			
Cys	Pro	Met	Glu	Gly	Trp	Ile	Pro	Pro	Leu	Ser	Arg	Phe	Pro	Val
4190						4195					4200			

Asp	Ile	Phe	Phe	Thr	Pro	Lys	Gln	Glu	Gly	Asp	Val	Asn	Phe	Asn
4205						4210					4215			
Leu	Ile	Cys	Asn	Ile	Lys	Lys	Lys	Ala	His	Pro	Leu	Thr	Leu	Asn
4220						4225					4230			
Val	Lys	Ala	Glu	Gly	Tyr	Thr	Met	Asn	Ala	Glu	Val	Lys	Cys	Arg
4235						4240					4245			
Asp	Arg	Met	Gly	Thr	Thr	Ile	Leu	Leu	Thr	Ser	Thr	Gln	Val	Asn
4250						4255					4260			
Thr	Ile	Asn	Phe	Tyr	Glu	Val	Glu	Leu	Asn	Glu	Cys	Val	Gln	Cys
4265						4270					4275			
Glu	Phe	Ser	Phe	Ile	Asn	Thr	Gly	Lys	Phe	Asn	Phe	Ser	Tyr	Gln
4280						4285					4290			
Ala	Glu	Leu	Ser	Gly	Pro	Lys	Leu	Leu	Leu	Gln	Tyr	Leu	Asp	Phe
4295						4300					4305			
Thr	Pro	Thr	Asp	Ser	Ser	Val	Asp	Val	Gly	Gln	Ser	Glu	Pro	Ala
4310						4315					4320			
Asn	Leu	Ser	Phe	Gln	Pro	Tyr	Gln	Lys	Cys	Val	Leu	Lys	Gly	Leu
4325						4330					4335			
Glu	Leu	Lys	Ile	Lys	Ile	Ser	His	Gly	Pro	Thr	Phe	Val	Cys	Asn
4340						4345					4350			
Ile	Leu	Gly	Cys	Ala	Val	Ser	Pro	Ala	Val	His	Phe	Ser	Phe	Thr
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Thr Thr Glu Gln Arg Leu Ala Lys Thr Arg Leu Met Cys Arg Pro Gln
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Gly Ile Asp Leu Asp Gln Ala Leu Phe Gln Pro Phe Pro Ser Glu Ile
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Ile Phe Gln Asn Tyr Thr Pro Cys Glu Val Tyr Glu Val Pro Leu Ile
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Leu Arg Asn Asn Asp Lys Ile Pro Arg Leu Val Lys Val Val Glu Glu
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Ser Ser Pro Tyr Phe Lys Val Ile Ser Pro Lys Asp Ile Gly His Lys
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Val Ala Pro Gly Val Pro Ser Ile Phe Arg Ile Leu Phe Thr Pro Glu
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Lys	Ile	Leu	Arg	Lys	Leu	Lys	Gly	Tyr	Asp	Ser	Tyr	Asn	Thr	Leu
1865						1870					1875			
Leu	Leu	Pro	Pro	His	Asn	Pro	Gly	Glu	Lys	Leu	Pro	Pro	Glu	Leu
1880						1885					1890			

Tyr	Glu	Tyr	Phe	Lys	Glu	Ile	Lys	Lys	Ser	Lys	Glu	Glu	Gln	Met
1895						1900					1905			
Arg	Ala	Lys	Tyr	Leu	Glu	Asn	Leu	Ala	Gln	Glu	Asn	Glu	Glu	Glu
1910						1915					1920			
Asp	Ile	Thr	Ser	Ser	Asp	Gln	Gly	Thr	Ser	Asn	Ser	Thr	Lys	Arg
1925						1930					1935			
Thr	Ser	Leu	Ser	Arg	Gly	Ile	Ser	Val	Thr	Ser	Asn	Leu	Glu	Glu
1940						1945					1950			
Trp	His	Ala	Leu	Leu	Val	Glu	Ser	Lys	Thr	Tyr	Leu	Glu	Glu	Glu
1955						1960					1965			
Glu	Asp	Glu	Glu	Ser	Leu	Glu	Lys	Ile	Ile	Phe	Gln	Thr	Asp	Lys
1970						1975					1980			
Leu	Gln	Ser	Ile	Asp	Ser	His	Ser	Met	Glu	Glu	Val	Gly	Glu	Val
1985						1990					1995			
Glu	Asn	Asn	Pro	Val	Ser	Lys	Ala	Ile	Ala	Arg	His	Leu	Gly	Ile
2000						2005					2010			
Asp	Ile	Ser	Ala	Glu	Gly	Arg	Leu	Ala	Lys	Asn	Arg	Lys	Gly	Ile
2015						2020					2025			
Ala	Ile	Ile	Ile	His	Gly	Thr	Pro	Leu	Ser	Gly	Lys	Ser	Ala	Asn
2030						2035					2040			
Ala	Val	Ser	Val	Ala	Lys	Tyr	Tyr	Asn	Ala	Ala	Cys	Leu	Ser	Ile
2045						2050					2055			
Asp	Ser	Ile	Val	Leu	Glu	Ala	Val	Ala	Asn	Ser	Asn	Asn	Ile	Pro
2060						2065					2070			
Gly	Ile	Arg	Ala	Cys	Glu	Leu	Cys	Ile	Arg	Ala	Ala	Ile	Glu	Gln
2075						2080					2085			
Ser	Met	Lys	Glu	Gly	Glu	Glu	Ala	Ala	Gln	Glu	Ala	Ala	Val	Gly
2090						2095					2100			
Gln	Asn	Val	Ile	Gly	Gln	Gly	Arg	Leu	Ser	Thr	Asp	Thr	Leu	Gly
2105						2110					2115			
Lys	Leu	Ala	Ser	Glu	Met	Thr	Leu	Val	Ala	Pro	Glu	Ile	Lys	Pro
2120						2125					2130			

Gly	Lys	Ser	Val	Arg	Gly	Ser	Val	Val	Ile	Thr	Lys	Ser	Lys	Ala
2135						2140					2145			
Asp	Ser	His	Gly	Ser	Gly	Ser	Gln	Lys	Gln	His	His	Ser	His	Gln
2150						2155					2160			
Ser	Glu	Thr	Pro	Gln	Ile	Ser	Ser	Ser	Pro	Leu	Pro	Pro	Gly	Pro
2165						2170					2175			
Ile	His	Arg	Trp	Leu	Ser	Val	Ser	Pro	Ser	Val	Gly	Gly	Glu	Thr
2180						2185					2190			
Gly	Leu	Met	Ser	Cys	Val	Leu	Pro	Asp	Glu	Leu	Leu	Val	Gln	Ile
2195						2200					2205			
Leu	Ala	Glu	Arg	Ile	Gln	Leu	Ser	Asp	Cys	Tyr	Arg	Gly	Val	Val
2210						2215					2220			
Phe	Asp	Gly	Leu	Asp	Thr	Leu	Phe	Ala	Arg	Asn	Ala	Ala	Ala	Ala
2225						2230					2235			
Leu	Leu	Cys	Leu	Leu	Lys	Ala	Ile	Gly	Ser	Arg	Glu	His	Ile	Tyr
2240						2245					2250			
Ile	Leu	Asn	Met	Ala	Gln	Asp	Tyr	Ala	Ala	Met	Lys	Ala	Arg	Glu
2255						2260					2265			
Lys	Ala	Lys	Lys	Glu	Gln	Glu	Glu	Arg	Lys	His	Lys	Gly	Ala	Leu
2270						2275					2280			
Glu	Lys	Glu	Lys	Glu	Arg	Leu	Gln	Asn	Met	Asp	Glu	Glu	Glu	Tyr
2285						2290					2295			
Asp	Ala	Leu	Thr	Glu	Glu	Glu	Lys	Leu	Thr	Phe	Asp	Arg	Gly	Ile
2300						2305					2310			
Gln	Gln	Ala	Leu	Arg	Glu	Arg	Lys	Lys	Arg	Glu	Gln	Glu	Arg	Leu
2315						2320					2325			
Ala	Lys	Glu	Met	Gln	Glu	Lys	Lys	Leu	Gln	Gln	Glu	Leu	Glu	Arg
2330						2335					2340			
Gln	Lys	Glu	Glu	Asp	Glu	Leu	Lys	Arg	Arg	Val	Lys	Lys	Gly	Lys
2345						2350					2355			
Gln	Gly	Pro	Ile	Lys	Glu	Glu	Pro	Pro	Met	Lys	Lys	Ser	Gln	Ala
2360						2365					2370			

Ala	Asn	Lys	Gln	Val	Pro	Pro	Leu	Thr	Lys	Val	Asp	Val	Lys	Met
2375						2380					2385			
Glu	Thr	Ile	Glu	Arg	Lys	Ile	Ser	Val	Arg	Glu	Gln	Thr	Met	Ser
2390						2395					2400			
Glu	Lys	Glu	Glu	Leu	Asn	Lys	Lys	Lys	Arg	Asn	Met	Gly	Asp	Val
2405						2410					2415			
Ser	Met	His	Gly	Leu	Pro	Leu	Val	Gln	Asp	Gln	Glu	Asp	Ser	Glu
2420						2425					2430			
Gly	Asp	Asn	Ser	Lys	Asp	Pro	Asp	Lys	Gln	Leu	Ala	Pro	Lys	Phe
2435						2440					2445			
Lys	Thr	Tyr	Glu	Leu	Thr	Leu	Lys	Asp	Val	Gln	Asn	Ile	Leu	Met
2450						2455					2460			
Tyr	Trp	Asp	Arg	Lys	Gln	Gly	Val	Gln	Leu	Pro	Pro	Ala	Gly	Met
2465						2470					2475			
Glu	Glu	Ala	Pro	His	Glu	Pro	Asp	Asp	Gln	Arg	Gln	Val	Pro	Leu
2480						2485					2490			
Gly	Gly	Arg	Arg	Gly	Arg	Lys	Asp	Arg	Glu	Arg	Glu	Arg	Leu	Glu
2495						2500					2505			
Lys	Glu	Arg	Thr	Glu	Lys	Glu	Arg	Leu	Glu	Arg	Glu	Lys	Ala	Glu
2510						2515					2520			
Arg	Glu	Arg	Leu	Glu	Lys	Leu	Arg	Ala	Leu	Glu	Glu	Arg	Ser	Asp
2525						2530					2535			
Trp	Glu	Gly	Glu	Gly	Glu	Glu	Asp	His	Glu	Gly	Lys	Lys	Glu	Lys
2540						2545					2550			
Asp	Leu	Gly	Val	Pro	Phe	Leu	Asp	Ile	Gln	Thr	Pro	Asp	Phe	Glu
2555						2560					2565			
Gly	Leu	Ser	Trp	Lys	Gln	Ala	Leu	Glu	Ser	Asp	Lys	Leu	Pro	Lys
2570						2575					2580			
Gly	Glu	Gln	Ile	Leu	Asp	Ile	Leu	Gly	Leu	Gly	Ala	Ser	Gly	Pro
2585						2590					2595			
Pro	Ile	Pro	Pro	Pro	Ala	Leu	Phe	Ser	Ile	Val	Ser	Tyr	Pro	Val
2600						2605					2610			

Lys	Arg	Pro	Pro	Leu	Thr	Met	Thr	Asp	Asp	Leu	Glu	His	Phe	Val
2615						2620					2625			
Phe	Val	Ile	Pro	Pro	Ser	Glu	Asp	Ile	Ser	Leu	Asp	Glu	Lys	Lys
2630						2635					2640			
Glu	Met	Glu	Ile	Glu	Ser	Asp	Phe	Leu	Ala	Thr	Thr	Asn	Thr	Thr
2645						2650					2655			
Lys	Ala	Gln	Glu	Glu	Gln	Thr	Ser	Ser	Ser	Lys	Gly	Gly	Lys	Gln
2660						2665					2670			
Lys	Met	Lys	Glu	Lys	Ile	Asp	Gln	Val	Phe	Glu	Ile	Gln	Lys	Asp
2675						2680					2685			
Lys	Arg	His	Met	Ala	Leu	Asn	Arg	Lys	Val	Leu	Ser	Gly	Glu	Pro
2690						2695					2700			
Ala	Gly	Thr	Ile	Ser	Gln	Leu	Ser	Asp	Thr	Asp	Leu	Asp	Asn	Phe
2705						2710					2715			
Asn	Gly	Gln	His	Ser	Gln	Glu	Lys	Phe	Thr	Arg	Leu	Asn	His	Phe
2720						2725					2730			
Arg	Trp	Ile	Val	Pro	Ala	Asn	Gly	Glu	Val	Thr	Leu	Gln	Val	His
2735						2740					2745			
Phe	Ser	Ser	Asp	Glu	Phe	Gly	Asn	Phe	Asp	Gln	Thr	Phe	Asn	Phe
2750						2755					2760			
Glu	Ile	Leu	Gly	Thr	Cys	Cys	Gln	Tyr	Gln	Leu	Tyr	Cys	Arg	Gly
2765						2770					2775			
Ile	Cys	Thr	Tyr	Pro	Tyr	Ile	Cys	Gln	Asp	Pro	Lys	Val	Val	Phe
2780						2785					2790			
Pro	Gln	Arg	Lys	Met	Asp	Met	Lys	Thr	Asn	Glu	Val	Ile	Phe	Lys
2795						2800					2805			
Lys	Tyr	Val	Met	Ser	Thr	Glu	Thr	Tyr	Tyr	Phe	Gly	Pro	Leu	Leu
2810						2815					2820			
Cys	Gly	Lys	Ser	Arg	Asp	Lys	Tyr	Lys	Ser	Ser	Leu	Phe	Pro	Gly
2825						2830					2835			
Asn	Met	Glu	Thr	Leu	Thr	Ile	Leu	Asn	Thr	Ser	Leu	Met	Val	Val
2840						2845					2850			

Glu	Ala	Ser	Phe	Tyr	Phe	Gln	Asn	Asp	Val	Lys	Ala	Asn	Thr	Tyr
2855						2860					2865			
Phe	Leu	Glu	Pro	Asn	Thr	Met	Val	Leu	Lys	Pro	Asn	Glu	Lys	Gln
2870						2875					2880			
Ile	Leu	Asn	Val	Trp	Ala	Tyr	Pro	Thr	Ser	Val	Gly	Val	Phe	Glu
2885						2890					2895			
Asp	Ser	Ile	Val	Cys	Cys	Ile	Asn	Asp	Asn	Pro	Glu	Pro	Ala	Ile
2900						2905					2910			
Phe	Gln	Leu	Ser	Cys	Gln	Gly	Ile	Arg	Pro	Glu	Leu	Glu	Leu	Glu
2915						2920					2925			
Pro	Arg	Gln	Leu	His	Phe	Asp	Arg	Leu	Leu	Leu	His	Arg	Gln	Glu
2930						2935					2940			
Ser	Arg	Val	Val	Leu	Leu	Arg	Asn	Val	Thr	Leu	Leu	Pro	Val	Ala
2945						2950					2955			
Trp	Arg	Ile	Thr	Ser	Leu	Glu	His	Leu	Gly	Asp	Asp	Phe	Thr	Val
2960						2965					2970			
Ser	Leu	Met	Gln	Gly	Thr	Ile	Pro	Pro	Glu	Ala	Glu	Tyr	Gly	Leu
2975						2980					2985			
His	Leu	Tyr	Phe	Gln	Pro	Thr	Lys	Pro	Val	Asn	Ile	Lys	Lys	Ala
2990						2995					3000			
Ile	Arg	Leu	Glu	Val	Leu	Asp	Ala	Glu	Asn	Leu	Leu	Gly	Val	Val
3005						3010					3015			
Gln	Ile	Glu	Asn	Ile	Met	Val	Phe	Ala	Glu	Ala	Tyr	Asp	Ile	Ala
3020						3025					3030			
Leu	Asp	Ile	Thr	Phe	Pro	Lys	Gly	Ala	Glu	Gly	Gly	Leu	Asp	Phe
3035						3040					3045			
Gly	Ile	Val	Arg	Val	Thr	Glu	Glu	Ala	Lys	Gln	Pro	Leu	Gln	Leu
3050						3055					3060			
Lys	Asn	Arg	Gly	Lys	Tyr	Glu	Ile	Ala	Phe	Ser	Phe	Ser	Val	Asp
3065						3070					3075			
Ser	Val	Gly	Ile	Ser	Thr	Pro	Asn	Ile	Asn	Ser	Met	Ile	Ser	Val
3080						3085					3090			

Gln	Pro	Lys	Lys	Gly	Ser	Leu	Thr	Pro	Thr	Glu	Lys	Pro	Thr	Asn
3095						3100					3105			
Val	Gln	Val	Phe	Phe	His	Ala	Lys	Lys	Glu	Val	Lys	Ile	Glu	His
3110						3115					3120			
Gln	Pro	Val	Leu	Arg	Cys	Gln	Ile	Ile	Glu	Pro	Asn	Ile	Ser	Glu
3125						3130					3135			
Gly	Gly	Glu	Ile	Ile	Ala	Ser	Ile	Pro	Ile	Lys	Phe	Ser	Ala	Asn
3140						3145					3150			
Ala	Val	Tyr	Ser	Lys	Tyr	Asn	Ile	Thr	Pro	Ser	Ser	Val	Ile	Asn
3155						3160					3165			
Phe	Gly	Ala	Leu	Ile	Cys	Gly	Thr	Arg	Lys	Ser	Thr	Thr	Phe	Thr
3170						3175					3180			
Ile	Glu	Asn	Gln	Gly	Val	Thr	Asp	Phe	Lys	Phe	Ala	Leu	Tyr	Lys
3185						3190					3195			
Leu	Thr	Gly	Glu	Ser	Pro	Ile	His	Gln	Lys	Lys	Ala	Ala	Ser	His
3200						3205					3210			
Val	Arg	His	Ala	Arg	Ser	Arg	Glu	Ser	Glu	Ser	Phe	Tyr	Lys	Thr
3215						3220					3225			
Gly	Ser	Ser	Arg	Ala	Ala	Lys	Phe	Ser	Asp	Thr	Ile	Gln	Lys	Glu
3230						3235					3240			
Val	Thr	Thr	Thr	Gly	Gln	Ala	Arg	Phe	Ala	His	Gly	Met	Phe	Thr
3245						3250					3255			
Val	Tyr	Pro	Gly	Phe	Gly	Ser	Ile	Pro	Ser	Gly	Gly	Gln	Gln	Val
3260						3265					3270			
Ile	Asn	Val	Asp	Cys	Val	Ala	Asp	Ala	Met	Gly	Lys	Cys	Glu	Glu
3275						3280					3285			
Phe	Ile	Ala	Ile	Asp	Ile	Ser	Gly	Arg	Asp	Pro	Ala	Val	His	Pro
3290						3295					3300			
Ala	Gly	Ile	Leu	Tyr	Thr	Leu	Leu	Ala	Glu	Ala	Cys	Leu	Pro	Ala
3305						3310					3315			
Phe	Val	Thr	Glu	Asn	Asn	Ala	Leu	Ile	Phe	Glu	Glu	His	Gln	Ile
3320						3325					3330			

Cys	Thr	Ser	Ala	Asn	Leu	His	His	Ile	Leu	Gln	Thr	Ile	Glu	Ser
3335						3340					3345			
Gly	Gly	Leu	Phe	Val	Glu	Asp	Glu	Asn	Lys	Phe	Ile	Phe	Cys	Asn
3350						3355					3360			
Val	Leu	Val	Gly	Arg	Gln	Ala	Lys	Ala	Arg	Phe	Lys	Ile	Ser	Asn
3365						3370					3375			
Val	Gly	Lys	Ile	Thr	Cys	Asp	Val	Asn	Ile	Val	Val	Arg	Pro	Ile
3380						3385					3390			
Ser	Asn	Lys	Pro	Phe	Ala	Arg	Ile	Val	Asp	Ile	Phe	Glu	Val	Glu
3395						3400					3405			
Pro	Ser	Lys	Met	Cys	Ile	Ala	Ser	His	Ser	His	Ala	Phe	Ala	Thr
3410						3415					3420			
Val	Ser	Phe	Thr	Pro	Gln	Ile	Met	Gln	Asn	Tyr	Gln	Cys	Ile	Phe
3425						3430					3435			
Glu	Ala	Thr	Leu	Asp	Gly	Leu	Pro	Ser	Thr	Leu	Ala	Lys	Ser	Arg
3440						3445					3450			
Gly	Leu	Val	Phe	Asp	Ile	Ala	Gly	Glu	Gly	Asn	Leu	Pro	Arg	Val
3455						3460					3465			
Thr	Val	Val	Arg	Pro	Val	Leu	His	Asn	Gln	Tyr	Gly	Asn	Pro	Leu
3470						3475					3480			
Leu	Leu	Phe	Lys	Arg	Leu	Leu	Leu	Gly	His	Ser	Glu	Lys	Leu	Pro
3485						3490					3495			
Leu	Ile	Leu	Lys	Asn	Asn	Gly	Val	Leu	Pro	Ala	Gln	Leu	His	Val
3500						3505					3510			
Asp	Leu	Gln	Asp	Glu	Leu	Gly	Val	Phe	Ser	Leu	Lys	Gly	Arg	Pro
3515						3520					3525			
Thr	Thr	Ala	Tyr	Ile	Tyr	Ile	Thr	Glu	Glu	Asn	Lys	Pro	His	Val
3530						3535					3540			
Lys	Ala	Lys	Lys	Ala	His	Thr	Ala	Ser	Leu	Val	Val	Ser	Pro	Gly
3545						3550					3555			
Asp	Thr	Ala	Glu	Phe	Asp	Val	Val	Phe	His	Ser	Gln	Lys	Val	Gly
3560						3565					3570			

Arg Met	Arg Gly	Ile Ile	His	Leu Ser	Val Ile	Asn	Asn Gln	Tyr	
3575			3580			3585			
Glu Glu	Thr Ser	Ile His	Met	Val Gly	Glu Gly	Tyr	Glu Asp	Asp	
3590			3595			3600			
Ile Thr	Leu Asp	Asn Ile	His	Gly Leu	Val Ala	Pro	Thr Ser	Gln	
3605			3610			3615			
Glu Asp	Ile Ser	Ile Ser	Glu	Phe Thr	Glu Ile	Ile	Glu Asp	Asn	
3620			3625			3630			
Asp Met	Glu Asp	Leu Val	Ala	Ala Ala	Leu Val	Asp	His Ile	Gln	
3635			3640			3645			
Phe Gly	Asp Cys	His Ile	Gly	His Ser	Tyr Asn	Ala	Ser Phe	Thr	
3650			3655			3660			
Val Thr	Asn His	Ser Gln	Val	Asn Leu	Ile Arg	Phe	Glu Trp	Pro	
3665			3670			3675			
Val Ser	Ala Thr	Ile Ala	Phe	Ser Pro	Gln Met	Gly	His Leu	His	
3680			3685			3690			
Pro Gly	Cys Ala	Lys Asp	Ile	Val Val	Thr Met	Lys	Ser Asp	Val	
3695			3700			3705			
Pro Ile	Asn Leu	Lys Asn	Met	Arg Ile	Arg Cys	Lys	Leu Ser	Arg	
3710			3715			3720			
Ile Met	Phe Gln	Leu Pro	Ala	Asp Gln	Val Pro	Asp	Trp Asp	Asp	
3725			3730			3735			
Arg Met	His Thr	Val Lys	Trp	Val Asp	Val Pro	Arg	Asn Met	Pro	
3740			3745			3750			
Gly Thr	Phe Thr	Thr Lys	Arg	Lys Val	Ile Glu	Thr	Asp Pro	Glu	
3755			3760			3765			
Pro Ala	His Ser	Val Leu	Glu	Glu Asn	Tyr Gln	Glu	Leu Gln	Leu	
3770			3775			3780			
Gln Ile	Ser Ala	Asn Val	Asp	Phe Ala	Ser Tyr	His	Cys Gln	Ala	
3785			3790			3795			
Arg Asp	Val Arg	Phe Lys	Glu	Thr Leu	Val Tyr	Gln	Thr Arg	Val	
3800			3805			3810			

Phe	Glu	Phe	Asp	Val	Ile	Asn	Ser	Gly	Arg	Val	Gln	Leu	Glu	Phe
3815						3820					3825			
Ser	Trp	Val	Ser	Glu	Asp	Thr	Ser	Lys	Ala	Val	Ser	Phe	Ala	Lys
3830						3835					3840			
Pro	Asp	His	Gln	Gly	Ser	Ala	Gln	Lys	Asp	Gln	Leu	Ser	Gln	Gly
3845						3850					3855			
Thr	Met	His	Thr	Gly	Ser	Thr	Leu	Asp	Ser	Thr	Met	Asp	His	Trp
3860						3865					3870			
Ala	Glu	Gly	Ser	Pro	Gln	Pro	Phe	Ser	Val	Glu	Pro	Ser	Ser	Gly
3875						3880					3885			
Ile	Val	Pro	Val	Gly	Lys	Ile	Gln	Lys	Phe	Lys	Val	Lys	Phe	Ser
3890						3895					3900			
Pro	Leu	Asp	Ile	Gly	Asp	Phe	Glu	Ser	Asn	Leu	Phe	Cys	Gln	Ile
3905						3910					3915			
Pro	Asn	Leu	Pro	Pro	Gly	Glu	Gln	Gly	Pro	Val	Leu	Val	Ala	Lys
3920						3925					3930			
Gly	Arg	Ser	Thr	Leu	Pro	Ile	Cys	His	Phe	Asp	Leu	Lys	Asp	Ser
3935						3940					3945			
Asp	Tyr	Ile	Ser	Gly	His	Gln	Arg	Asn	Pro	Glu	Leu	Arg	Gly	Ser
3950						3955					3960			
Ser	Gly	Gly	Ala	Leu	Asp	Pro	Asn	Thr	Arg	Val	Ile	Glu	Phe	Thr
3965						3970					3975			
Thr	Val	Gly	Ile	Gly	Gly	Lys	Asn	Leu	Arg	Thr	Phe	Thr	Ile	Leu
3980						3985					3990			
Asn	Pro	Thr	Asn	Ser	Thr	Tyr	Ser	Phe	Cys	Trp	Ile	Ser	Glu	Ile
3995						4000					4005			
Val	Phe	Gln	Phe	Thr	Pro	Phe	His	Leu	Gly	Ile	Thr	Glu	Ser	Ser
4010						4015					4020			
Trp	Thr	Phe	Leu	Ile	Pro	Glu	His	Asn	Ile	Thr	Ile	Val	Phe	Gln
4025						4030					4035			
Phe	Thr	Pro	Phe	His	Leu	Gly	Ile	Thr	Glu	Ser	Ser	Trp	Thr	Phe
4040						4045					4050			

Leu 4055	Ile	Pro	Glu	His	Asn	Ile 4060	Thr	Val	Pro	Phe	Leu 4065	Leu	Val	Gly
Lys 4070	Thr	Thr	Glu	Pro	Leu	Ile 4075	Ser	Leu	Asn	Lys	Ser 4080	His	Leu	Asn
Phe 4085	Ser	Ser	Leu	Leu	Ile	Gly 4090	Arg	Glu	Ala	Arg	Glu 4095	Thr	Val	Gln
Ile 4100	Ile	Asn	Lys	Glu	Glu	Gln 4105	Gly	Phe	Asp	Phe	Ser 4110	Phe	Gln	Asp
Asn 4115	Ser	Arg	Tyr	Ser	Glu	Gly 4120	Phe	Ser	Asn	Ser	Leu 4125	Leu	Val	Cys
Pro 4130	Met	Glu	Gly	Trp	Ile	Pro 4135	Pro	Leu	Ser	Arg	Phe 4140	Pro	Ile	Asp
Ile 4145	Phe	Phe	Thr	Pro	Lys	Gln 4150	Glu	Gly	Asp	Val	Asn 4155	Phe	Asn	Leu
Ile 4160	Cys	Asn	Val	Glu	Lys	Lys 4165	Val	His	Pro	Val	Thr 4170	Leu	Asn	Val
Lys 4175	Ala	Glu	Gly	Tyr	Thr	Met 4180	Asn	Val	Glu	Ile	Lys 4185	Cys	Lys	Asp
Arg 4190	Thr	Gly	Ser	Ile	Thr	Leu 4195	Leu	Thr	Pro	Asn	Gln 4200	Thr	Asn	Ile
Ile 4205	Asn	Phe	Tyr	Glu	Val	Glu 4210	Leu	Asn	Glu	Cys	Val 4215	Gln	Cys	Glu
Phe 4220	Asn	Phe	Ile	Asn	Thr	Gly 4225	Lys	Phe	Thr	Phe	Ser 4230	Phe	Gln	Ala
Gln 4235	Leu	Cys	Gly	Ser	Lys	Thr 4240	Leu	Leu	Gln	Tyr	Leu 4245	Glu	Phe	Ser
Pro 4250	Ile	Asp	Ser	Thr	Val	Asp 4255	Val	Gly	Gln	Ser	Val 4260	His	Ala	Thr
Leu 4265	Ser	Phe	Gln	Pro	Leu	Lys 4270	Lys	Cys	Val	Leu	Thr 4275	Asp	Leu	Glu
Leu 4280	Ile	Ile	Lys	Ile	Ser	His 4285	Gly	Pro	Thr	Phe	Met 4290	Cys	Asn	Ile

Ser	Gly	Cys	Ala	Val	Ser	Pro	Ala	Ile	His	Phe	Ser	Phe	Thr	Ser
	4295					4300					4305			
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